Claims

1. Ignition mixture containing explosives, oxidizers, and reducers, characterized in that it contains one or more explosive(s) that is/are ignitable by laser light.

2. Ignition mixture according to Claim 1, characterized in that the explosive, alone or as a mixture, is selected from the primary or initial explosives, for example from lead trinitroresorcinate, diazodinitrophenol, tetrazene, or potassium dinitrobenzofuroxanate, or mixtures of these explosives.

3. Ignition mixture according to Claim 1 or 2, characterized in that the explosive, alone or as a mixture, is selected from the secondary explosives, for example from nitrocellulose, hexanitrostilbene, from certain heterocycles such as nitrotriazolone, from the derivatives of tetrazoles such as aminotetrazole, ditetrazole, or diaminoguanidine azotetrazole, and from hexagene or octagene, from secondary explosives derived from urea and its derivatives such as biuret, guanidine, nitroguanidine, guanidine nitrate, aminoguanidine, aminoguanidine nitrate, thiourea, triaminoguanidine nitrate, aminoguanidine hydrogen carbonate, azodicarboxylic acid diamide, tetrazene, semicarbazide nitrate, from the urethanes, from the ureides such as barbituric acid and its derivatives, from nitrided aromatic compounds, or from nitrided aromatic compounds with a polymer structure such as polynitropolyphenolether or the polynitropolyphenylenes, or from mixtures of these explosives.

4. Ignition mixture according to Claim 3, characterized in that the secondary explosive is chosen from nitrided aromatic compounds with a polymer structure.

5. Ignition mixture according to one of Claims 3 or 4, characterized in that the secondary explosive is chosen from the polynitropolyphenylethers and/or polynitropolyphenylenes.

6. Ignition mixture according to one or more of Claims 1 to 5, characterized in that the oxidant is chosen from sulfur, the peroxides of alkali metals or alkaline earth metals, from zinc peroxide, from the peroxodisulfates of the aforesaid elements, and of ammonium, from the nitrates of the alkali metals and alkaline earth metals, in particular from lithium, sodium, potassium, or strontium nitrate as well as ammonium nitrate, from the oxohalogen compounds of alkali metals or alkaline earth metals or of ammonium, in particular from potassium perchlorate or ammonium perchlorate, or from mixtures of the aforesaid substances.

7. Ignition mixture according to one or more of Claims 1 to 6, characterized in that the reducing agent is a metal, chosen from titanium, zirconium, aluminum, magnesium, or cerium, a mixture of these metals, an alloy of these metals such as titanium/aluminum, or cerium/magnesium, in that it is carbon or boron, or in that it is a mixture of the aforesaid substances.

8. Ignition mixture according to one of more of Claims 1 to 7, characterized in that, in addition to the explosives, oxidizers, and reducing agents, it contains binders and/or processing agents and/or pressing agents and/or combustion moderators known of themselves.

9. Ignition mixture according to one or more of Claims 1 to 8, characterized in that it is dyed or reacted with dye pigments.

10. Ignition mixture according to one or more of Claims 1 to 9, characterized in that substances or mixtures thereof are used as combustion moderators that are appropriate for affecting combustion and the rate thereof by heterogeneous or homogenous catalysis.

11. Method for manufacturing the ignition mixture according to one or more of Claims 1 to 10, characterized in that the individual components are mixed then pressed.

12. Use of the ignition mixture according to one or more of Claims 1 to 10 for igniting pyrotechnic mixtures or primers as well as propellant charges.

13. Ignition mixture according to one or more of Claims 1 to 10, characterized in that it contains a mixture of primary and secondary explosives.